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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-03-12-02** **Date: 13-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.
Customer's Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-03-18
Sample ID No	:	2018-03-12-02 /01
Sample Type	:	INDUS
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	12-03-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	INDUS	Fe500	8	0.393	552	668	20.0%	Satisfactory	Satisfactory
2	INDUS	Fe500	10	0.614	573	689	20.0%	Satisfactory	Satisfactory
3	INDUS	Fe500	12	0.888	588	694	20.0%	Satisfactory	Satisfactory

Note:

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Asst. Executive Engineer
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Velahanka Zone
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R KARTHIK RECHAN
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-03-01-02**	**Date: 05-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10	
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.	
Customer's Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-03-18	
Sample ID No	:	2018-03-01-02 /05	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of Test	:	01/03/2018	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	CP-2018-03-01-02	**Date: 05-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10	
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.	
Customer's Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-03-18	
Sample ID No	:	2018-03-01-02 /04	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	01/03/2018	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/03/2018

Lab ID	:	**CP-2018-03-19-09**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.
Customer's Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-03-18
Sample ID No	:	2018-03-19-09 /03
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/03/2018	24/03/2018	151.02 X 150.63 X 150.21	22748	8.205	411.7	18.1	18.0
2	M20 Concrete	M20	17/03/2018	24/03/2018	149.66 X 150.42 X 150.35	22512	8.163	391.7	17.4	
3	M20 Concrete	M20	17/03/2018	24/03/2018	149.63 X 150.75 X 150.78	22557	8.156	417.3	18.5	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/04/2018

Lab ID	:	**CP-2018-03-19-09**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.
Customer's Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-03-18
Sample ID No	:	2018-03-19-09 /04
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/03/2018	14/04/2018	150.78 X 150.69 X 150.44	22721	8.179	540.8	23.8	23.1
2	M20 Concrete	M20	17/03/2018	14/04/2018	150.67 X 151.44 X 150.64	22817	8.065	508.8	22.3	
3	M20 Concrete	M20	17/03/2018	14/04/2018	150.77 X 150.69 X 150.53	22720	8.245	524.8	23.1	

Note:

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-04-06-02** **Date: 09-04-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.
Customer Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-04-18
Sample ID No	:	2018-04-06-02/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	06-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0.0	100.0	100
53	996	996	10.0	90.0	80-100
26.5	1686	2682	26.8	73.2	55-90
9.5	1292	3974	39.7	60.3	35-65
4.75	1490	5464	54.6	45.4	25-55
2.36	1764	7228	72.3	27.7	20-40
0.425	1666	8894	88.9	11.1	10-25
0.075	896	9790	97.9	2.1	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-04-10-04** **Date: 12-04-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.
Customer Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-18
Sample ID No	:	2018-04-10-04/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	10-04-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	900	900	9.0	91.0	80-100
26.5	900	1800	18.0	82.0	55-90
9.5	4400	6200	62.0	38.0	35-65
4.75	200	6400	64.0	36.0	25-55
2.36	800	7200	72.0	28.0	20-40
0.425	1500	8700	87.0	13.0	10-25
0.075	1100	9800	98.0	2.0	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	22.00%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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Page 1/1
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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-04-09-02**	**Date: 10-04-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10	
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.	
Customer Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	09-04-18	
Sample ID No	:	2018-04-09-02/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	09-04-18	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.0	300.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	85.0	73.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	214.7	226.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	28.3	24.3
6	Aggregate impact value (Mean of two tests)	Pecentage	26.3	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-04-09-02**	**Date: 10-04-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10	
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.	
Customer Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	09-04-18	
Sample ID No	:	2018-04-09-02/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	09-04-18	

Result:

Index	Percentage of Flakiness and Elongation Index(%)	Secified limits as per MORTH specification table 400-12
Flakiness Index	9.3	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.3	
Combined Flakiness and Elongation Index for WMM	22.6	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-04-09-02**	**Date: 10-04-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Widening of Doddabommasandra Main Road in Ward No.10	
Agency	:	M/s.Prashanth Road Infra Project & Developer Pvt.Ltd.	
Customer Reference	:	BBMP/BZ/EE(PR)/WO/01/15-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	09-04-18	
Sample ID No	:	2018-04-09-02/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	09-04-18	
Oven Dry Weight	:	11000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	200	200	1.8	98.2	95-100
22.4	2300	2500	22.7	77.3	60-80
11.2	1700	4200	38.2	61.8	40-60
4.75	2400	6600	60.0	40.0	25-40
2.36	700	7300	66.4	33.6	15-30
0.6	700	8000	72.7	27.3	8-22
0.075	1500	9500	86.4	13.6	0-5

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